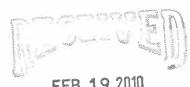


Jim Hoy, P.E. County Engineer 118 West Davis Street, Suite 101, Culpeper, Virginia 22701 Telephone: (540) 727-3409 Fax: (540) 727-3436 Email: jhoy@culpepercounty.gov



FEB 19 2010

VADEQ-NRO

# **Certified Mail**

February 18, 2010

Ms. Joan C. Crowther **VPDES Permit Writer** Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, Virginia 22193

Re: VA0068586 Culpeper County Industrial Airpark WWTP **Application for VPDES Permit Renewal** 

Dear Ms. Crowther:

Please find attached an original and two (2) copies of an application for renewal of the above referenced permit.

If you have any questions or need additional, please contact me at (540) 727-3409.

Sincerely,

Jim Hoy, P.E. County Engineer

Attachment

c: Master File



# PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Envir	onmental Quality to have the cost of publishing a public
notice billed to the Agent/Department show	on below. The public notice will be published once a week
for two consecutive weeks in _The Star Exp	oonent in accordance
with 9 VAC 25-31-290.C.2.	
Agent/Department to be billed:	County of Culpeper, Dept. of Environmental Services
Owner:	County of Culpeper
Agent/Department Address:	118 West Davis Street, Suite 101
	Culpeper, VA 22701
Agent's Telephone No.:	(540) 727-3409
Printed Name:	Paul E. Howard, Jr., Director of Environmental Services
Authorizing Agent – Signature:	Paul Honards
Date:	J/18/10

VPDES Permit No. VA0068586

Facility Name: Culpeper County Industrial Air Park Wastewater Treatment Plant





Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM		U.S. ENVIRO	ONME	NTAL	PROTECTI	ON	AGENCY	I. EPA I.D. NUMBER			1	
1	<b>\$EPA</b>				FORMA			s			T/A C	
GENERAL					ermits Prog uctions" befo			F 1 2		13	14 15	
	LITEMS							GENERAL INSTRU	provide	S d, affix	it in the	
designated space. Review the inform is incorrect, cross through it and er appropriate fill-in area below. Also, if							nter the correct data in the fany of the preprinted data					
III. FACILITY NAME Industrial Air Park Wastewater Treatment Plant information that should appear, place								information that should appear), plea	f the label space lists the ease provide it in the proper			
	/ MAILING	118 West Davis S		I must be completed recordings. Complete all items if no labe								
has been provided. descriptions and for							has been provided. Refer to the insidescriptions and for the legal authoridata is collected.					
II. POLLUTANT	CHARACTERIS		,	3				add is concoled.				
submit this for you answer "ne	m and the suppler o" to each questio	mental form listed in the pare	nthesi f these	s follo e forms bold-	wing the qu s. You may faced terms	est ans	ion. Mark "X" in the box in	the EPA. If you answer "yes" to ar the third column if the supplemer excluded from permit requirement	ntal for	m is at Section	ttached. If n C of the	
	SPECIFIC QU	JESTIONS	YES	NO NO	FORM ATTACHED		SPECIFIC	CQUESTIONS	YES	Mark NO	FORM ATTACHED	
		ned treatment works which ers of the U.S.? (FORM 2A)	X		X	В	include a concentrated	y (either existing or proposed) I animal feeding operation or tion facility which results in a		×		
C. la this a fee	ilite cole i ale accessor	itly results in discharges to	16	17	18	_	discharge to waters of t	he U.S.? (FORM 2B)	19	20	21	
	he <b>U.S</b> . other tha	in those described in A or B	22	23	24			(other than those described in A sult in a discharge to waters of	25	26	27	
	vill this facility to wastes? (FORM:	reat, store, or dispose of 3)		X		F	municipal effluent be containing, within one	ect at this facility industrial or elow the lowermost stratum quarter mile of the well bore, drinking water? (FORM 4)		×		
		s facility any produced water	28	29	30	Н	. Do you or will you injec	t at this facility fluids for special	31	32	33	
connection inject fluids	with conventional used for enhance	brought to the surface in oil or natural gas production, ed recovery of oil or natural age of liquid hydrocarbons?		×			solution mining of miner	g of sulfur by the Frasch process, rals, in situ combustion of fossil ermal energy? (FORM 4)		×		
(FORM 4)	v a proposed stat	tionary source which is one	34	35	36	_	le this facility a propos	ed stationary source which is	37	38	39	
of the 28 inc which will p	dustrial categories potentially emit 10	listed in the instructions and 00 tons per year of any air		X			NOT one of the 28 in- instructions and which v	dustrial categories listed in the vill potentially emit 250 tons per		X		
		Clean Air Act and may affect t area? (FORM 5)	40	41	42			regulated under the Clean Air Act ocated in an attainment area?	43	44	45	
c	FACILITY									11111		
1 SKIP I	NDUSTRIÁL	'Air' park wastev	T'AV	ER T	REATME	Ņ.	r' plant' ' '		69			
IV. FACILITY	CONTACT		W		W W		Walter Company of the	Walliam to the start along protection in the start of the				
c		A. NAME & TITLE (last	Ť	<del>- T í</del>				B. PHONE (area code & no.)				
2 PAUL H	HOWARD, DI	rector of envir	ONM	ENT	AL SERV	/I		(540) 727-3409 ' '	55	nichanica and paragraph		
	AILING ADDRESS	3		T. It				1 1 4				
С		A. STREET OR P	.O. BC	X								
3 118 WE	st bavis '	STREET, SUITE 1	<u> </u>	1 1	1 ( )		46					
c CULPER	PER PER	B. CITY OR TOWN	<del>-</del> T-	TT	T	1	C. STATE VA 2	D. ZIP CODE				
15 16							40 41 42 47	51				
VI. FACILITY		REET, ROUTE NO. OR OTHE	D CD	ECIEIC	DENTIEL	D		Arene Bretone en estado e				
3	AIR PARK		T	T T								
15 16		B. COUNTY	' NAM	IE_			45 [					
CULPEPEF	3			T		Γ		70				
6		C. CITY OR TOWN	T	Parameter State of St		Т	D. STATE VA 2	E. ZIP CODE F. COUNTY C	ODE (	if know	n)	
15 16							40 41 42 47	51 52	-54			

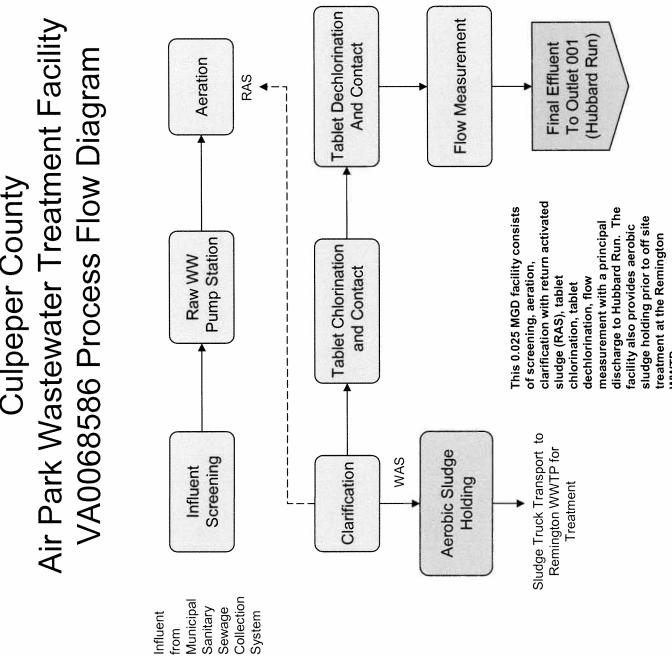
CONTINUED FROM THE FRONT		
VII. SIC CODES (4-digit, in order of priority)	· 李素· 100 ·	
A. FIRST    C     (specify) Sewerage Systems: establishments primar	ily engaged 3 (specify)	B. SECOND
7 4952 In the collection and disposal of wastes conduction and disposal of wastes conduction sewer system, including such treatment processes	ted through a /	
15 [16 - 19] C. THIRD	15 16 - 19	D. FOURTH
(specify)	c (specify)	
75 18 - 19	15 16 - 19	
VIII. OPERATOR INFORMATION	TARAM	D to the same listed in these
8 COUNTY OF CULPEPER	VAME	B. Is the name listed in Item  VIII-A also the owner?  ☑ YES ☐ NO
C. STATUS OF OPERATOR (Enter the appropri	ate letter into the answer box: if "Other," specify.)	D. PHONE (area code & no.)
F = FEDERAL S = STATE P = PRIVATE  M = PUBLIC (other than federal or st O = OTHER (specify)	ate) M (specify) CULPEPER COUNTY, VIRGI	A (540) 727-3409
E. STREET OR P.O. BOX		13 6 - 16 13 - 21 22 - 25
118 WEST DAVIS STREET		
F. CITY OR TOWN	G. STATE	H. ZIP CODE IX. INDIAN LAND
B CULPEPER		I I I I I I Is the facility located on Indian lands?
X. EXISTING ENVIRONMENTAL PERMITS	TO REAL PROPERTY OF THE PROPER	
A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)	
C   T	N/A	30
B. UIC (Underground Injection of Fluids)		R (specify)
C   T   1	17 18	(specify)
C. RCRA (Hazardous Wastes)		R (specify)
		(specify)
15 16 17 18 30 15 16	17 18	30
XI. MAP		
Attach to this application a topographic map of the area extending location of each of its existing and proposed intake and discharge sinjects fluids underground. Include all springs, rivers, and other surface.	ructures, each of its hazardous waste treatmer	nt, storage, or disposal facilities, and each well where it
XII. NATURE OF BUSINESS (provide a brief description)	the second	
The County of Culpeper is a municipality that	provides water and sewerage se	ervices to the public.
XIII. CERTIFICATION (see instructions)	And the second of the second o	
I certify under penalty of law that I have personally examined and all inquiry of those persons immediately responsible for obtaining the Ir am aware that there are significant penalties for submitting false infor	formation contained in the application, I believe	e that the information is true, accurate, and complete. I
A. NAME & OFFICIAL TITLE (type or print) Paul Howard, Jr.	B. SIGNATURE	C. DATE SIGNED
Director of Environmental Services	Paul Sonare	2/18/10

# **VPDES Permit Application Addendum**

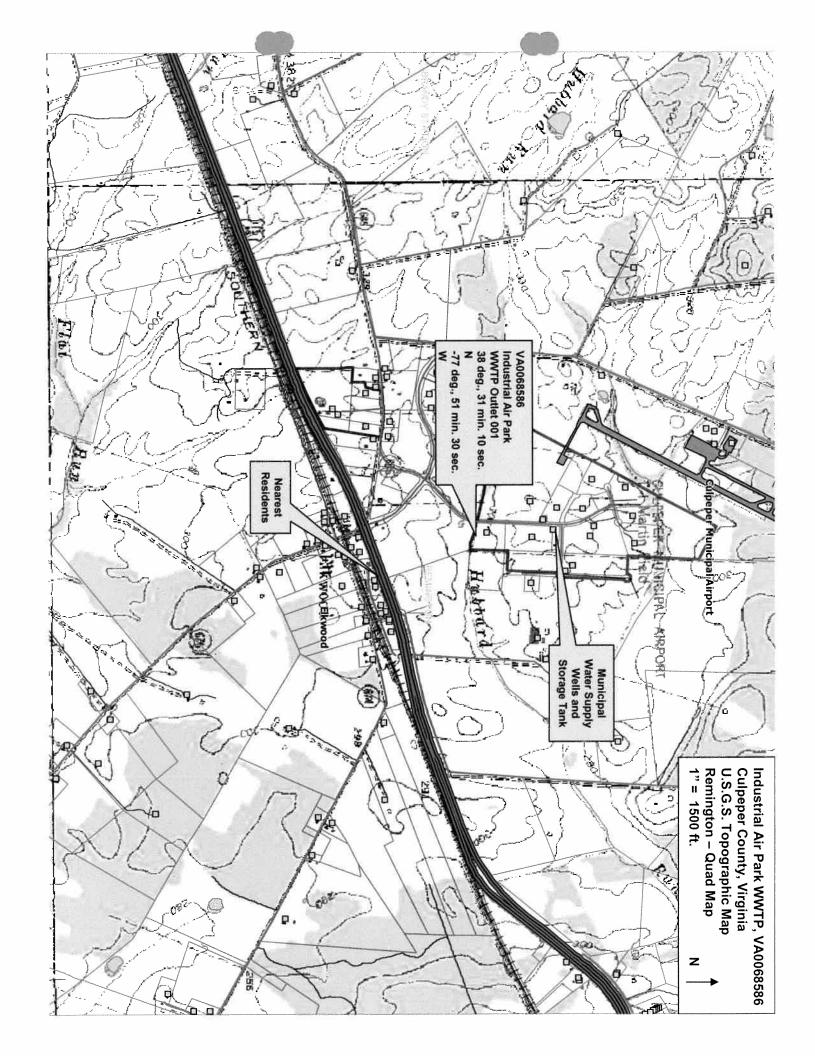
1.	Entity to whom the permit is to be issued: County of Culpeper
	no will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may to be the facility or property owner.
2.	Is this facility located within city or town boundaries? Yes No X
3.	Provide the tax map parcel number for the land where the discharge is located. 34B12
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next
fiv	ve years due to new construction activities? N/A
5.	What is the design average effluent flow of this facility? 0.025 MGD
	For industrial facilities, provide the max. 30-day average production level, include units: $\ensuremath{\mathrm{N/A}}$
	In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes X No
Ple exp	ease consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to pand operations during the next five years? Is your facility's design flow considerably greater than your current flow?
6.	Nature of operations generating wastewater:
N	Aunicipal sanitary sewage collection from industrial air park customers
	0 % of flow from domestic connections/sources
	Number of private residences to be served by the treatment works: 0
	100 % of flow from non-domestic connections/sources
7.	Mode of discharge: X Continuous
	Identify the characteristics of the receiving stream at the point just above the facility's discharge point:  Permanent stream, never dry
	X Intermittent stream, usually flowing, sometimes dry
•	Ephemeral stream, wet-weather flow, often dry
	Effluent-dependent stream, usually or always dry without effluent flow
	Lake or pond at or below the discharge point
,	Other:
ი ი	Approval Date(s).
	Approval Date(s):  O & M Manual May 1999 (Jan. 1986) Sludge/Solids Management Plan N/A
	Have there been any changes in your operations or procedures since the above approval dates? Yes \( \subseteq \) No X
	may energ been any changes in your operations of procedures since the above approval dates? Yes [1] NO X



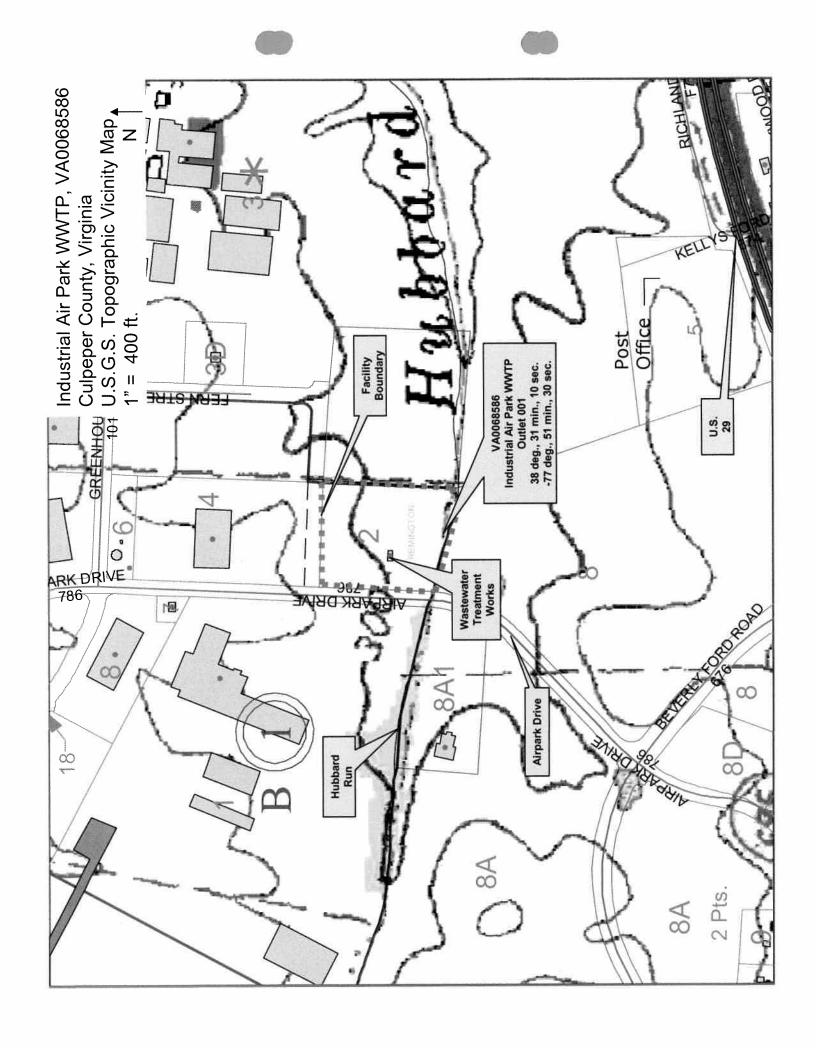
# Culpeper County













Industrial Air Park Wastewater Treatment Facility, VA0068586

Form Approved 1/14/99 OMB Number 2040-0086

FORM

2A NPDES

# NPDES FORM 2A APPLICATION OVERVIEW

### **APPLICATION OVERVIEW**

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

### **BASIC APPLICATION INFORMATION:**

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that:
    - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- **G. Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

# ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

# **Disclaimer**

This is an updated PDF document that allows you to type your information directly into the form and to save the completed form. This form is the most updated form currently available.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

# Instructions:

- 1. Type in your information
- 2. Save file (if desired)
- 3. Print the completed form
- 4. Sign and date the printed copy
- 5. Mail it to the directed contact.

Industrial Air Park Wastewater Treatment Facility, VA0068586

Form Approved 1/14/99 OMB Number 2040-0086

# BASIC APPLICATION INFORMATION

PAR	T A. BASIC APPL	ICATION INF	ORMATION FOR ALL	APPLICANTS:		
			tions A.1 through A.8 of	this Basic Application	n Information pac	ket.
A.1.	Facility Information	1.				
	Facility name	INDUSTRIAL	AIR PARK WASTEWAT	FER TREATMENT F	PLANT	
	Mailing Address	118 West Day	vis Street, Suite 101, Cu	lpeper, VA 22701		
	Contact person	Paul Howard,	Jr.	***************************************		·
	Title	Director of En	vironmental Services	······································		
	Telephone number	(540) 727-340	)9			
	Facility Address (not P.O. Box)	13281 Air Par	k Drive, Culpeper, VA 2	2701		
A.2.	Applicant Informat	ion. If the applica	ant is different from the abo	ve, provide the following	ng:	
	Applicant name	Culpeper Cou	inty			
	Mailing Address	118 West Day	vis Street, Suite 101, Cu	lpeper, VA 22701		
	Contact person	Same as note	d above			
	Title			····		
	Telephone number					
	Is the applicant the	owner or opera	tor (or both) of the treatn	nent works?		
	<b>▼</b> owner		operator			
	Indicate whether cor facility	respondence reg	arding this permit should be applicant	e directed to the facility	or the applicant.	
A.3.		ental Permits. P		f any existing environr	mental permits that	have been issued to the treatment
	NPDES VA00685	586		PSD	N/A	
	LUC NIA			Other	N1/A	
	RCRA N/A			Other	N/A	
A.4.	Collection System each entity and, if kr etc.).	Information. Pronown, provide info	ovide information on munici ormation on the type of colle	palities and areas servection system (combine	ved by the facility. I ed vs. separate) an	Provide the name and population of d its ownership (municipal, private,
	Name		Population Served	Type of Collect	ion System	Ownership
	Industrial Park	a y a m jangamagan manyan mangan m	400	Separate		Municipal
	l otal po	pulation served	400			



Industrial Air Park Wastewater Treatment Facility, VA0068586

A.5.	Ind	lian Country.					
	a.	Is the treatment works located in Indian Co	ountry?				
		Yes					
	b.	Does the treatment works discharge to a rethrough) Indian Country?	eceiving water that is either	in Indian Country or that is u	pstream from	(and eventually	flows
		Yes					
<b>A</b> .6.	ave	ow. Indicate the design flow rate of the treat erage daily flow rate and maximum daily flow riod with the 12th month of "this year" occur	v rate for each of the last the	ee years. Each year's data	must be base	andle). Also prov ed on a 12-month	vide the n time
	a.	Design flow rate 0.025 mgd					
			Two Years Ago	Last Year	This Yea	<u>ar</u>	
	b.	Annual average daily flow rate	0.010 mgd	0.014 mgd		0.006 mgd	mgd
	C.	Maximum daily flow rate	0.024 mgd	0.026 mgd	-	0.010 mgd	mgd
<b>A</b> .7.		Illection System. Indicate the type(s) of contribution (by miles) of each.  Separate sanitary sewer	llection system(s) used by the	ne treatment plant. Check al	li that apply.	Also estimate the	
		<del></del>					%
		Combined storm and sanitary sewer					70
A.8.	Dis	scharges and Other Disposal Methods.					
	a.	Does the treatment works discharge efflue	ent to waters of the U.S.?		✓ Yes		No
		If yes, list how many of each of the following	ng types of discharge points	the treatment works uses:			
		i. Discharges of treated effluent				1	
		ii. Discharges of untreated or partially tre	eated effluent			0	
		iii. Combined sewer overflow points				0	
		iv. Constructed emergency overflows (pri	or to the headworks)			0	
		v. Other				<b>—</b>	
	b.	Does the treatment works discharge efflue impoundments that do not have outlets for lf yes, provide the following for each surfa	discharge to waters of the		Yes		No
		Location:					
		Annual average daily volume discharged t	o surface impoundment(s)	***************************************		mgd	
		Is discharge continuous or	intermittent?				
	C.	Does the treatment works land-apply treat	ed wastewater?	and Arrival	Yes		No
		If yes, provide the following for each land	application site:				
		Location:					
		Number of acres:					
		Annual average daily volume applied to si	te:	Mgd			
		Is land application continu	ous or interm	ittent?			
	d.	Does the treatment works discharge or tra	insport treated or untreated	wastewater to another		,	No





Industrial Air Park Wastewater Treatment Facility, VA0068586

N/A	
If transport is by a pa	rty other than the applicant, provide:
Transporter name:	N/A
Mailing Address:	
Contact person:	
Title:	
Telephone number:	
For each treatment w	vorks that receives this discharge, provide the following:
Name:	N/A
Mailing Address:	
Contact person:	
Title:	
Telephone number:	
	NPDES permit number of the treatment works that receives this discharge.
Provide the average	daily flow rate from the treatment works into the receiving facility.
Does the treatment w	vorks discharge or dispose of its wastewater in a manner not included in above (e.g., underground percolation, well injection)?  Yes  Yes
· ····································	lowing for each disposal method:
_	
If yes, provide the following	d (including location and size of site(s) if applicable):
If yes, provide the followers	d (including location and size of site(s) if applicable):  disposed of by this method:



Industrial Air Park Wastewater Treatment Facility, VA0068586

Form Approved 1/14/99 OMB Number 2040-0086

# WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	scription of Outfall.	•				
a.	Outfall number	001				
b.	Location		AIR PARK DRIVE			22701
		(City or Culper	town, if applicable)			(Zip Code) VA
		(Count				(State) - 77 deg., 51 min., 30 sec. W
		(Latitud				(Longitude)
C.	Distance from shore	e (if applicab	le)	N/A	ft.	
d.	Depth below surface	e (if applicat	ole)	N/A	ft.	
e.	Average daily flow	rate	_	0.009	mgd	
f.	Does this outfall ha periodic discharge?		intermittent or a	V	1	N ( ( A O : )
				Yes		No (go to A.9.g.)
	If yes, provide the f	ollowing into	rmadon:			
	Number of times pe	er year disch	arge occurs:		.,	
	Average duration o	f each disch	arge:	·····	····	
	Average flow per di	ischarge:				mgd
	Months in which dis	scharge occı	ırs:		·····	
g.	Is outfall equipped	with a diffuse	er?	Yes	✓	No No
D. De	scription of Receiv	ing Waters.				
a.	Name of receiving	water	Hubbard Run			
	Nama af watarahaa	1. (25 L )	Ran	pahannock River		
b.	Name of watershed	ı (ır known)	1.05	panamiock river		
b.			n Service 14-digit watershe			
b.	United States Soil (	Conservation	-		nock Riv	er
	United States Soil (	Conservation	 n Service 14-digit watershe	ed code (if known): <u>Rappahan</u>		er
C.	United States Soil ( Name of State Mar United States Geol	Conservation nagement/Riv	n Service 14-digit watershe ver Basin (if known): y 8-digit hydrologic catalog	ed code (if known): <u>Rappahan</u>		er
C.	United States Soil (	Conservation nagement/Riv logical Surve	n Service 14-digit watershe ver Basin (if known): y 8-digit hydrologic catalog eam (if applicable):	ed code (if known): <u>Rappahan</u>	):	

Form Approved 1/14/99 OMB Number 2040-0086

# FACILITY NAME AND PERMIT NUMBER:

Industrial Air Park Wastewater Treatment Facility, VA0068586

a. What levels	of treatment a	are provided? Ch	neck all tha						
1	Primary		,	condary					
	Advanced	*****		er. Describe:					
b. Indicate the	following rem	oval rates (as a	pplicable):						
Design BOD	removal or	Design CBOD <sub>s</sub> r	emoval		85		9/	6	
Design SS r	•	5			85			6	
Design P re					N/A				
-							<i>'</i>		
Design N re					<u>N/A</u>		······································		
	imonia	<del></del>			<u>85</u>				
c. What type o	f disinfection	is used for the e	ffluent from	this outfall? If dis	infection varie	s by season, p	lease descri	ibe.	
Tablet Ch	orination					<del></del>		······	
If disinfectio	n is by chlorir	nation, is dechlor	rination use	d for this outfall?		_ <b>√</b> _ Y	es		No
d. Does the tre	atment plant	have post aerati	ion?			Y	es .	✓	No
collected throu of 40 CFR Part	not include gh analysis 136 and othe	information or conducted using er appropriate (	n combine ng 40 CFR QA/QC req	d sewer overflow Part 136 method uirements for sta	rs in this sect s. In addition andard metho	ion. All inform , this data m ds for analyte	nation repo ust comply es not addre	rted m with Q essed	nust be based on A/QC requireme by 40 CFR Part 1
discharged. Do collected throu of 40 CFR Part At a minimum,	o not include gh analysis 136 and othe effluent testi	information or conducted using er appropriate ( ing data must b	n combine ng 40 CFR QA/QC req ne based o	d sewer overflow Part 136 method uirements for sta	rs in this sect s. In addition andard metho	ion. All inforn , this data m ds for analyte nust be no m	nation repo ust comply es not addre	rted m with Q essed ur and	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,	o not include gh analysis 136 and othe effluent testi	e information or conducted usin er appropriate C ing data must b	n combine ng 40 CFR QA/QC req ne based o	d sewer overflow Part 136 method uirements for sta n at least three s	rs in this sect s. In addition andard metho	ion. All inform this data meds for analyte nust be no meds.	nation repo ust comply es not addre ore than fou	rted m with Q essed ur and	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum, Outfall number: PARAM	o not include gh analysis 136 and othe effluent testi	e information or conducted usin er appropriate C ing data must b	n combined ng 40 CFR QA/QC requested to the based of	d sewer overflow Part 136 method uirements for sta n at least three s	rs in this sect s. In addition andard metho amples and n	ion. All inform this data meds for analyte nust be no meds.	nation repo ust comply es not addre ore than fou RAGE DAIL	rted m with Q essed ur and	nust be based on NA/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum, Outfall number:  PARAM  Minimum)	o not include gh analysis 136 and othe effluent testi	e information or conducted usin er appropriate C ing data must b	n combined ng 40 CFR QA/QC requested to the based of	d sewer overflow Part 136 method uirements for sta n at least three s  DAILY VALUE  Units	rs in this sect s. In addition andard metho amples and n	ion. All inform this data meds for analyte nust be no meds.	nation repo ust comply es not addre ore than fou RAGE DAIL	rted m with Q essed ur and	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,  Outfall number:  PARAM  Minimum)	o not include gh analysis 136 and othe effluent testi	information or conducted using er appropriate ( ing data must b	n combine ng 40 CFR QA/QC req ne based o	d sewer overflow Part 136 method uirements for sta n at least three s  DAILY VALUE  Units  s.u.	rs in this sect s. In addition andard metho amples and n	ion. All inform this data meds for analyte nust be no meds.	nation repo ust comply es not addre ore than fou RAGE DAIL	rted m with Q essed ur and	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,	o not include gh analysis 136 and othe effluent testi	information or conducted using rappropriate Cing data must b	n combine ng 40 CFR QA/QC req ne based o	d sewer overflow Part 136 method uirements for sta n at least three s  DAILY VALUE  Units  s.u. s.u.	vs in this sect s. In addition andard metho amples and n	ion. All information. All informations design and the model of the mod	nation repo ust comply es not addre ore than fou RAGE DAIL	rted m with Q essed ur and	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,  Outfall number:  PARAM  Minimum)  Maximum)  Rate  perature (Winter)  perature (Summe	o not include gh analysis of 136 and other effluent testing 001  ETER	information or conducted using rappropriate Cing data must be 6.71 7.89 0.010 8.7 22.4	n combine ng 40 CFR QA/QC reque based o	DAILY VALUE  Units  s.u.  s.u.  MGD  deg. C  deg. C	vs in this section in addition and ard metho amples and not ample am	ion. All inform, this data mids for analytinust be no mids.  AVE	nation repo ust comply es not addre ore than fou RAGE DAIL Units	rted m with Q essed ur and Y VAL	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,  Outfall number:  PARAM  Minimum)  Maximum)  Rate  perature (Winter)	o not include gh analysis of 136 and other effluent testing 001  ETER	information or conducted using rappropriate Cing data must be 6.71 7.89 0.010 8.7 22.4 mum and a maximum MAXIMUI	n combined ag 40 CFR QA/QC reques based of the based of t	d sewer overflow Part 136 method uirements for sta n at least three s  DAILY VALUE  Units  s.u.  s.u.  MGD  deg. C  deg. C  value	vs in this section and art method amples and not value of the control of the cont	AVE	RAGE DAIL Units  D ANALYTI	rted m with Q essed ur and Y VALI 4 4 4	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,  Outfall number:  PARAM  Minimum)  Maximum)  Rate  perature (Winter)  perature (Summe * For pH please	o not include gh analysis of 136 and other effluent testing 001  ETER	information or conducted using rappropriate Cing data must be conducted using data must be conducted as a conducted using data must be conducted as a conduc	n combined ag 40 CFR QA/QC reques based of the based of t	d sewer overflow Part 136 method uirements for sta n at least three s  DAILY VALUE  Units  s.u.  s.u.  MGD  deg. C  deg. C  value	vs in this sects. In addition and ard metho amples and not ample amples and not a	AVE	nation repo ust comply es not addre ore than fou RAGE DAIL Units	rted m with Q essed ur and Y VALI 4 4 4	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,  Outfall number:  PARAM  Minimum)  Maximum)  Rate  perature (Winter)  perature (Summe * For pH please  POLLUTAR	o not include gh analysis of 136 and other effluent testing 001  ETER  r) report a mining of the state of the	information or conducted using rappropriate Cing data must be described by the conducted using data must be described by the conducted using data must be described by the conducted by the condu	MAXIMUM E  Alue  imum daily  M DAILY  ARGE  Units	DAILY VALUE Units s.u. s.u. MGD deg. C value AVERAC	vs in this sects. In addition and ard metho amples and not value 0.006 5.2 20.9	ion. All inform, this data mids for analytinust be no m  AVE  IE  MG  dec  CHARGE	nation repo ust comply es not addre ore than fou RAGE DAIL Units	rted m with Q essed ur and Y VALI 4 4 4	nust be based on A/QC requirement by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum,  Outfall number:  PARAM  Minimum)  Maximum)  Rate  perature (Winter)  perature (Summe * For pH please  POLLUTAR	o not include gh analysis of 136 and other effluent testing the months of the property of the	information or conducted usine rappropriate Cing data must be described by the conducted using data must be described by the conducted by the	MAXIMUM [  // Alue  Image: Alice of the control of	DAILY VALUE Units s.u. s.u. MGD deg. C value AVERAC	vs in this section and art method amples and method amples and method amples and method of the control of the c	AVE  AVE  AVE  AVE  CHARGE  Number of Samples	nation repo ust comply es not addre ore than four RAGE DAIL Units  D  C  ANALYTI METHO	Y VAL	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a  UE  Number of Sampl  ML / MDL
discharged. Do collected throu of 40 CFR Part At a minimum,  Outfall number:  PARAM  Minimum)  Maximum)  Rate  perature (Winter)  perature (Summe * For pH please  POLLUTAN  MEMICAL OXYGE	o not include gh analysis a 136 and othe effluent testing 001  ETER  TO NONCONVI	information or conducted using rappropriate Cing data must be described by the conducted using data must be described by the conducted using data must be described by the conducted by the condu	MAXIMUM E  Alue  imum daily  M DAILY  ARGE  Units	DAILY VALUE Units s.u. s.u. MGD deg. C value AVERAC	vs in this sects. In addition and ard metho amples and not value 0.006 5.2 20.9	ion. All inform, this data mids for analytinust be no m  AVE  IE  MG  dec  CHARGE	nation repo ust comply es not addre ore than fou RAGE DAIL Units	Y VAL	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a
discharged. Do collected throu of 40 CFR Part At a minimum, Outfall number:  PARAM Minimum) Maximum)  Rate perature (Winter) perature (Summe * For pH please	o not include gh analysis of 136 and other effluent testing the months of the property of the	information or conducted using rappropriate Cing data must be conducted using data must be conducted using data must be conducted using data must be conducted as a conducted co	MAXIMUM [  // Alue  Image: Alice of the control of	DAILY VALUE Units s.u. s.u. MGD deg. C value AVERAC	vs in this section and art method amples and method amples and method amples and method of the control of the c	AVE  AVE  AVE  AVE  CHARGE  Number of Samples	nation repo ust comply es not addre ore than four RAGE DAIL Units  D  C  ANALYTI METHO	Y VAL	nust be based on A/QC requireme by 40 CFR Part 1 one-half years a  UE  Number of Sampl  ML / MDL

**2A YOU MUST COMPLETE** 

F	ΞΔ	CII	ITY	NAME	AND	PERMIT	NUMBER:

Industrial Air Park Wastewater Treatment Facility, VA0068586

BA	SI	C A	APPLICATION INFORMATION					
PAR	TE	3.	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).					
All ap	plic	cants	with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).					
B.1.	ln	flow	and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.  N/A gpd					
	Br	iefly	explain any steps underway or planned to minimize inflow and infiltration.					
B.2.	Th	nis m	raphic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. ap must show the outline of the facility and the following information. (You may submit more than one map if one map does not show ire area.)					
	a.	Th	e area surrounding the treatment plant, including all unit processes.					
	b.		e major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which ated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.					
	C.	Ea	ch well where wastewater from the treatment plant is injected underground.					
	d.		ells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment rks, and 2) listed in public record or otherwise known to the applicant.					
	e.	An	y areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.					
	f.	tru	he treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by ck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or posed.					
	bac chic	ckup orina	s Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., tion and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily between treatment units. Include a brief narrative description of the diagram.					
B.4.	Op	erati	on/Maintenance Performed by Contractor(s).					
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibilit contractor?YesNo							
			st the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional necessary).					
	Nar	me:						
	Mai	iling .	Address:					
	Tele	epho	ne Number:					
	Res	spon	sibilities of Contractor:					
	unc rea	omp atmei	led Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or leted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the nt works has several different implementation schedules or is planning several improvements, submit separate responses to question each. (If none, go to question B.6.)					
,	а.	Lis N/	t the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule. A					
İ	٥.		icate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.  _YesNo					

FΔ	CII	ITY	NAM	FAND	PERMIT	NUMBER:

Industrial Air Park Wastewater Treatment Facility, VA0068586

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С	If the answer to B.5	5.b is "Yes," briet	fly describe, inclu	iding new maxim	num daily inflow	rate (if applicabl	e).	
d.		provements plan	ned independen	tly of local, State			nentation steps listed lanned or actual com	
			Schedule	A	ctual Completio	n		
	Implementation Sta	age	MM / DD /	YYYY M	M / DD / YYYY			
	- Begin construction	on			_//			
	<ul> <li>End construction</li> </ul>		//		_//			
	- Begin discharge		//					
	- Attain operationa	l level	//_		_//			
e.	Have appropriate p	ermits/clearance	es concerning ot	her Federal/State	e requirements	been obtained?	Yes	_No
	Describe briefly: _					····		
	-		***************************************		***************************************			
	LUENT TESTING D							
Ap tes ov me sta	plicants that discharge sting required by the erflows in this section ethods. In addition, t	ge to waters of t permitting autho n. All informatio his data must co analytes not addi	he US must provority for each outfor reported must omply with QA/Qeressed by 40 CF	ride effluent testi all through which be based on data C requirements of R Part 136. At a	n effluent is disc a collected throu of 40 CFR Part	charged. Do not in the charged in th	ters. Provide the indinclude information on ducted using 40 CFR propriate QA/QC requust be based on at i	n combined sewer Part 136 uirements for
Οι	utfall Number: 001							
Р	OLLUTANT		JM DAILY HARGE	AVERAG	GE DAILY DISC	HARGE		
		Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL
CONVEN	TIONAL AND NON	CONVENTIONA	L COMPOUNDS	<b>.</b>	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
MMONI	A (as N)							
	NE (TOTAL AL, TRC)							
DISSOLV	ED OXYGEN				:			
	JELDAHL EN (TKN)							
	PLUS NITRITE							
	GREASE							
PHOSPH	ORUS (Total)							
OTAL D	ISSOLVED (TDS)							
OTHER								
REFE	R TO THE A	PPI ICATIO		END OF PA		E WHICH C	THER PART	S OF FORM

2A YOU MUST COMPLETE

FACILITY NAME AND P	PERMIT NUMBER:			m Approved 1/14/99 B Number 2040-0086
Industrial Air Park Was	stewater Treatment Facilit	ty, VA0068586	<u></u>	27,13,7,23, 20,7, 0000
BASIC APPLICA	ATION INFORMAT	ION		
PART C. CERTIFICA	TION			
applicants must complete have completed and are	e all applicable sections of Fe	orm 2A, as explained in the A certification statement, applica	rmine who is an officer for the purposes of pplication Overview. Indicate below which nts confirm that they have reviewed Form 2	parts of Form 2A you
Indicate which parts of	Form 2A you have comple	eted and are submitting:		
Basic Applic	ation Information packet	Supplemental Application	nformation packet:	
		Part D (Expanded	Effluent Testing Data)	
4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Part E (Toxicity Toxicity Toxicit	esting: Biomonitoring Data)	
		Part F (Industrial	Jser Discharges and RCRA/CERCLA Was	tes)
		Part G (Combined	I Sewer Systems)	
ALL APPLICANTS MUS	T COMPLETE THE FOLLO	WING CERTIFICATION.		
designed to assure that of who manage the system	qualified personnel properly or or those persons directly res d complete. I am aware that	gather and evaluate the inform sponsible for gathering the inf	under my direction or supervision in accornation submitted. Based on my inquiry of the permation, the information is, to the best of me for submitting false information, including the submitting false information.	ne person or persons ny knowledge and
Name and official title	Paul Howard, Jr., Direct	or of Environmental Service	es	
Signature				
Telephone number	(540) 727-3409			
Date signed	2/18/10	•		

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

# SEND COMPLETED FORMS TO:

Industrial Air Park Wastewater Treatment Facility, VA0068586

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# SUPPLEMENTAL APPLICATION INFORMATION

### PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 \_(Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Mass Units Conc. Units ANALYTICAL ML/ MDL Mass Units Number **METHOD** of Samples METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS. ANTIMONY N/A ARSENIC N/A BERYLLIUM N/A CADMIUM N/A CHROMIUM N/A COPPER N/A LEAD N/A MERCURY N/A NICKEL N/A SELENIUM N/A SILVER N/A THALLIUM N/A ZINC N/A CYANIDE N/A TOTAL PHENOLIC COMPOUNDS N/A HARDNESS (AS CaCO<sub>3</sub>) N/A Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.





Industrial Air Park Wastewater Treatment Facility, VA0068586

Outfall number: 001 POLLUTANT			e for eac					DISCHA	the United S	iales.)	
IULLUIANI		DISCH	HARGE							ANALVTICAL	3.41 / 8.47
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.			<u> </u>			<u> </u>			Samples		
ACROLEIN	N/A										
ACRYLONITRILE	N/A										
BENZENE	N/A										
BROMOFORM	N/A										
CARBON TETRACHLORIDE	N/A										
CLOROBENZENE	N/A										
CHLORODIBROMO-METHANE	N/A										****
CHLOROETHANE	N/A										
2-CHLORO-ETHYLVINYL ETHER	N/A										
CHLOROFORM	N/A										
DICHLOROBROMO-METHANE	N/A										
1,1-DICHLOROETHANE	N/A										
1,2-DICHLOROETHANE	N/A										
TRANS-1,2-DICHLORO-ETHYLENE	N/A										
1,1-DICHLOROETHYLENE	N/A										
1,2-DICHLOROPROPANE	N/A										
1,3-DICHLORO-PROPYLENE	N/A										
ETHYLBENZENE	N/A										
METHYL BROMIDE	N/A										
METHYL CHLORIDE	N/A	***************************************									
METHYLENE CHLORIDE	N/A										
1,1,2,2-TETRACHLORO-ETHANE	N/A										
TETRACHLORO-ETHYLENE	N/A										
TOLUENE	N/A										



Industrial Air Park Wastewater Treatment Facility, VA0068586

Outfall number: 001	_ (Compl	ete onc	e for eac	h outfall	discharg	ing efflu	ent to w	aters of	the United S	States.)	
POLLUTANT	V		JM DAIL` HARGE	1	A۱	/ERAGE	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE	N/A										
1,1,2-TRICHLOROETHANE	N/A										
TRICHLORETHYLENE	N/A										
VINYL CHLORIDE	N/A										
Use this space (or a separate sheet) to	provide in	formatio	n on other	volatile o	rganic cor	mpounds	requeste	by the	permit writer.		
ACID-EXTRACTABLE COMPOUNDS		l	I	L		I	L	1	I		
P-CHLORO-M-CRESOL	N/A										
2-CHLOROPHENOL	N/A										
2,4-DICHLOROPHENOL	N/A										
2,4-DIMETHYLPHENOL	N/A										
4,6-DINITRO-O-CRESOL	N/A										
2,4-DINITROPHENOL	N/A										
2-NITROPHENOL	N/A										
4-NITROPHENOL	N/A										
PENTACHLOROPHENOL	N/A										
PHENOL	N/A										
2,4,6-TRICHLOROPHENOL	N/A										
Use this space (or a separate sheet) to	provide in	nformatio	n on othe	acid-extr	actable co	ompound	s requeste	ed by the	permit writer.		
BASE-NEUTRAL COMPOUNDS.								·			
ACENAPHTHENE	N/A										
ACENAPHTHYLENE	N/A										
ANTHRACENE	N/A										
BENZIDINE	N/A										
BENZO(A)ANTHRACENE	N/A										
BENZO(A)PYRENE	N/A										





Industrial Air Park Wastewater Treatment Facility, VA0068586

Outfall number: 001									the United	States.)	
POLLUTANT	٨	AXIMU DISCH	JM DAIL` HARGE	Y	A۱	/ERAGE	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE	N/A										
BENZO(GHI)PERYLENE	N/A										
BENZO(K)FLUORANTHENE	N/A										
BIS (2-CHLOROETHOXY) METHANE	N/A										
BIS (2-CHLOROETHYL)-ETHER	N/A										
BIS (2-CHLOROISO-PROPYL) ETHER	N/A										
BIS (2-ETHYLHEXYL) PHTHALATE	N/A										
4-BROMOPHENYL PHENYL ETHER	N/A										
BUTYL BENZYL PHTHALATE	N/A										
2-CHLORONAPHTHALENE	N/A										
4-CHLORPHENYL PHENYL ETHER	N/A										
CHRYSENE	N/A										
DI-N-BUTYL PHTHALATE	N/A										
DI-N-OCTYL PHTHALATE	N/A										
DIBENZO(A,H) ANTHRACENE	N/A										
1,2-DICHLOROBENZENE	N/A										
1,3-DICHLOROBENZENE	N/A									Maria (1997)	
1,4-DICHLOROBENZENE	N/A										
3,3-DICHLOROBENZIDINE	N/A		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
DIETHYL PHTHALATE	N/A										
DIMETHYL PHTHALATE	N/A										
2,4-DINITROTOLUENE	N/A										
2,6-DINITROTOLUENE	N/A										***************************************
1,2-DIPHENYLHYDRAZINE	N/A										



Industrial Air Park Wastewater Treatment Facility, VA0068586

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Outfall number:										States.)	
POLLUTANT	1	MAXIMU DISCI	JM DAIL HARGE	Y	Α\	/ERAGE	EDAILY	DISCHA	ARGE		
	Conc.	Units		Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE	N/A										
FLUORENE	N/A										
HEXACHLOROBENZENE	N/A										
HEXACHLOROBUTADIENE	N/A										
HEXACHLOROCYCLO- PENTADIENE	N/A										
HEXACHLOROETHANE	N/A										
INDENO(1,2,3-CD)PYRENE	N/A										
ISOPHORONE	N/A										
NAPHTHALENE	N/A										
NITROBENZENE	N/A										
N-NITROSODI-N-PROPYLAMINE	N/A										
N-NITROSODI- METHYLAMINE	N/A										
N-NITROSODI-PHENYLAMINE	N/A										
PHENANTHRENE	N/A										
PYRENE	N/A										
1,2,4-TRICHLOROBENZENE	N/A										
Use this space (or a separate sheet) t	o provide i	nformatio	n on othe	r base-ne	utral com	oounds re	equested	by the pe	rmit writer.		
Use this space (or a separate sheet) t	o provide i	nformatio	on othe	r pollutan	ts (e.g., pe	esticides)	requeste	d by the p	permit writer.	-	

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Industrial Air Park Wastewater Treatment Facility, VA0068586

Form Approved 1/14/99 OMB Number 2040-0086

# SUPPLEMENTAL APPLICATION INFORMATION

### PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity
  test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results
  of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to

complete E.1. Required Tests. Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years. E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported. Test number: Test number:\_ Test number: a. Test information. Test species & test method number Age at initiation of test Outfall number Dates sample collected Date test started Duration b. Give toxicity test methods followed. Manual title Edition number and year of publication Page number(s) c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used. 24-Hour composite Grab d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each) Before disinfection After disinfection After dechlorination

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	Test number:	Test number:	Test number:
e. Describe the point in the treatmer	nt process at which the sample was	collected.	
Sample was collected:			
f. For each test, include whether the	test was intended to assess chronic	toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performed	d.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	er, specify "natural" or type of artificia	ıl sea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used	I for all concentrations in the test ser	ies.	
k. Parameters measured during the	test. (State whether parameter mee	ts test method specifications)	
рН			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			
Acute:			
Percent survival in 100% effluent	%	%	%
LC <sub>50</sub>			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBER Industrial Air Park Wastewater Treatm			Form Approved 1/14/99 OMB Number 2040-0086
Chronic:			
NOEC	%	%	%
IC <sub>25</sub>	%	%	%
Control percent survival	%	%	%
Other (describe)			
m. Quality Control/Quality Assuran	ce.		
Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			
E.4. Summary of Submitted Biomonito	describe:  ring Test Information. If you have r and one-half years, provide the dat		ion, or information regarding the le permitting authority and a
Summary of results: (see instruction	ns)		

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

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# SUPPLEMENTAL APPLICATION INFORMATION

### INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES PART F.

	atment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must ete Part F.
GEN	ERAL INFORMATION:
F.1. F	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?
	YesNo
	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.
	a. Number of non-categorical SIUs.
	b. Number of CIUs.
SIGN	IIFICANT INDUSTRIAL USER INFORMATION:
	y the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 rovide the information requested for each SIU.
ł	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.
	Name:
	Mailing Address:
F.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
1	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):
	Pow material/o):
	Raw material(s):
F.6.	Flow Rate.
	a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
	<ul> <li>Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.</li> </ul>
-	gpd (continuous orintermittent)
	Pretreatment Standards. Indicate whether the SIU is subject to the following:
	a. Local limitsYesNo
	b. Categorical pretreatment standardsYesNo
	If subject to categorical pretreatment standards, which category and subcategory?

F A	CII	ITV	NAME	AND	PERMIT	NUMBER:
r,	<b>NUIL</b>	-811	IVAIVIE	MINU	FERMIN	IACINDELE:

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CRA H					
RA H		******			
RA H					
	IAZARDOUS WAS	TE RECEIVED B	BY TRUCK, RAIL, OR DEDICA	TED PIPELINE:	
RCR pipe			ceive or has it in the past three yea	ars received RCRA hazard	dous waste by truck, rail, or dedica
0. Wa:	iste Transport. Meth	nod by which RCRA	waste is received (check all that a	ipply):	
	Truck	Rail	Dedicated Pipe		
1 18/0	esta Dagarintian Ci	uo EDA hozardous u	usate number and amount (valum	a ar maga ang sif ( , mita)	
	A Hazardous Waste N		waste number and amount (volume Amount	e or mass, specify units). Units	
***************************************					
			***************************************	***************************************	
			***************************************		
DCI A	A (SUDEDELIND) V	MASTEWATED E	RCRA REMEDIATION/CORRI	CTIVE	
	A (SOFEIXI DIAD) A				
2. Ren	mediation Waste. D _Yes (complete F.1	oes the treatment w 3 through F.15.)	works currently (or has it been notif  No  ormation (F.13 - F.15.) for each cur	ied that it will) receive was	ste from remedial activities?
2. Ren Pro	mediation Waste. D _Yes (complete F.1 ovide a list of sites an	ooes the treatment w 3 through F.15.) d the requested info	vorks currently (or has it been notif	ied that it will) receive was	
2. Ren Pro  3. Was in th	mediation Waste. D _Yes (complete F.1 pvide a list of sites an aste Origin. Describe the next five years).	ooes the treatment w 3 through F.15.) d the requested info e the site and type of	vorks currently (or has it been notif No  ormation (F.13 - F.15.) for each cur of facility at which the CERCLA/RC	ied that it will) receive was rent and future site. RA/or other remedial wast	te originates (or is expected to orig
Pro  3. Was in the	mediation Waste. D _Yes (complete F.1  povide a list of sites an  iste Origin. Describe the next five years).	ooes the treatment w 3 through F.15.) d the requested info e the site and type of	vorks currently (or has it been notif No  ormation (F.13 - F.15.) for each cur of facility at which the CERCLA/RC	ied that it will) receive was rent and future site. RA/or other remedial wast	te originates (or is expected to originates and concentration
Pro  13. Was in th  14. Poll know	mediation Waste. D _Yes (complete F.1 povide a list of sites an aste Origin. Describe the next five years).  Blutants. List the haz awn. (Attach additional	ooes the treatment was through F.15.)  If the requested information in the requested information in the requested information in the requested information in the requested in t	vorks currently (or has it been notif No  ormation (F.13 - F.15.) for each cur of facility at which the CERCLA/RC	ied that it will) receive was rent and future site.  RA/or other remedial wast d to be received). Include	te originates (or is expected to orig
Pro 3. Was in the horizontal structure of the horizontal s	rediation Waste. D  Yes (complete F.1  Divide a list of sites and ste Origin. Describe the next five years).  Illutants. List the haze and site of the divided in the list of sites and sites of the list of the l	ooes the treatment was through F.15.)  If the requested information in the requested information in the requested information in the requested information in the requested in t	vorks currently (or has it been notif No  primation (F.13 - F.15.) for each cur of facility at which the CERCLA/RC  to that are received (or are expected ry).	ied that it will) receive was trent and future site.  RA/or other remedial wast to be received). Include	te originates (or is expected to orig
Pro Pro  4. Poll know  5. Was a.	rediation Waste. D  Yes (complete F.1  Divide a list of sites and ste Origin. Describe the next five years).  Illutants. List the haze and site of the divided in the list of sites and sites of the list of the l	ooes the treatment was through F.15.)  If the requested information in the requested information in the requested information in the requested information in the requested in t	vorks currently (or has it been notifNo primation (F.13 - F.15.) for each cur of facility at which the CERCLA/RC	ied that it will) receive was trent and future site.  RA/or other remedial wast to be received). Include	te originates (or is expected to orig
Pro 13. Was in the horizontal state of the horizontal	rediation Waste. D Yes (complete F.1 Divide a list of sites and ste Origin. Describe the next five years).  Illutants. List the haziwn. (Attach additional steep of the steep	ooes the treatment was through F.15.)  If the requested information in the requested information in the requested information in the requested information in the requested in the reatment (provide	vorks currently (or has it been notif No  primation (F.13 - F.15.) for each cur of facility at which the CERCLA/RC  to that are received (or are expected ry).	ied that it will) receive was trent and future site.  RA/or other remedial wast to be received). Include	te originates (or is expected to orig

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# SUPPLEMENTAL APPLICATION INFORMATION

# PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
  - a. All CSO discharge points.
  - b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
  - c. Waters that support threatened and endangered species potentially affected by CSOs.
- **G.2.** System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
  - a. Locations of major sewer trunk lines, both combined and separate sanitary.
  - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
  - c. Locations of in-line and off-line storage structures.
  - d. Locations of flow-regulating devices.
  - e. Locations of pump stations.

cso	οι	JTFALLS:					
Com	plet	e questions G.3 throug	ih G.6 once <u>for each CSO discharge point</u>				
G.3. I	Des	cription of Outfall.					
	a.	Outfall number					
	b.	Location					
	υ.	Location	(City or town, if applicable)		(Zip Code)	-	
			(County)		(State)	_	
			(Latitude)		(Longitude)	-	
	C.	Distance from shore (if	applicable)	ft.			
	d.	Depth below surface (if	f applicable)	ft.			
	e.	Which of the following	were monitored during the last year for this C	SO?			
		Rainfall	CSO pollutant concentrations	CSO frequen	су		
		CSO flow volume	Receiving water quality				
	f.	How many storm event	ts were monitored during the last year?				
G.4.	cso	) Events.					
	a.	Give the number of CS	O events in the last year.				
		events (	actual or approx.)				
	b.	Give the average durat	ion per CSO event.				
		hours (	actual or approx.)				

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ndı	stria	l Air Park Wastewater Treatment Facility, VA0068586	
	C.	Give the average volume per CSO event.	
		million gallons ( actual or approx.)	
	d.	Give the minimum rainfall that caused a CSO event in the last year.	
		inches of rainfall	
G.5	. Des	scription of Receiving Waters.	
	a.	Name of receiving water:	
	b.	Name of watershed/river/stream system:	
		United States Soil Conservation Service 14-digit watershed code (if known	wn):
	C.	Name of State Management/River Basin:	
		United States Geological Survey 8-digit hydrologic cataloging unit code	(if known):
G.6	. cs	O Operations.	
	pe	Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).	
<b>_</b>		END OF PAR	
ĸ	=rE	R TO THE APPLICATION OVERVIEW TO DET	EKWINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.



#### VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

#### **SCREENING INFORMATION**

This application is divided into four sections. Section A pertains to all applicants. The applicability of Sections B, C and D depends on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All applicants must complete Section A (General Information).
2.	Does this facility generate sewage sludge? X YesNo
	Does this facility derive a material from sewage sludge? Yes X No
	If you answered "Yes" to either, complete Section B (Generation Of Sewage Sludge or Preparation Of A Material Derived From Sewage Sludge).
3.	Does this facility apply sewage sludge to the land? Yes $\underline{X}$ No
	Is sewage sludge from this facility applied to the land? Yes $\underline{X}$ No
	If you answer "No" to all above, skip Section C.
	If you answered "Yes" to either, answer the following three questions: N/A
	<ul> <li>Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?</li> <li>Yes No</li> </ul>
	b. Is sewage sludge from this facility placed in a bag or other container for sale or give-away for application to the land?  Yes No
	c. Is sewage sludge from this facility sent to another facility for treatment or blending? Yes No
	If you answered "No" to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you answered "Yes" to a, b or c, skip Section C.
4.	Do you own or operate a surface disposal site? Yes X No
	If "Yes", complete Section D (Surface Disposal).



All applicants must complete this section.

1.	Fac	cility Information.				
	a.	Facility name: Culpeper County Industrial Air Park Wastewater Treatment Plant				
	b.	Contact person: Jim Hoy				
		Title: County Engineer				
		Phone: (540) 727-3409				
	c.	Mailing address:				
		Street or P.O. Box: 118 West Davis Street, Suite 101				
		City or Town: <u>Culpeper</u> State: <u>VA</u> Zip: <u>22701</u>				
	d.	Facility location:				
		Street or Route #: 13281 Air Park Drive				
		County: <u>Culpeper</u>				
		City or Town: <u>Culpeper</u> State: <u>VA</u> Zip: <u>22701</u>				
	e.	Is this facility a Class I sludge management facility? Yes X No				
	f.	Facility design flow rate: 0.025 mgd				
	g.	Total population served: 400, population equivalent				
	h.	Indicate the type of facility:				
		$\underline{X}$ Publicly owned treatment works (POTW)				
		Privately owned treatment works				
		Federally owned treatment works				
		Blending or treatment operation				
		Surface disposal site				
		Other (describe):				
2.	Ap	plicant Information. If the applicant is different from the above, provide the following:				
	a.	Applicant name: N/A				
	b.	Mailing address:				
		Street or P.O. Box:				
		City or Town:          State:				
	c.	Contact person:				
		Title:				
		Phone: ()				
	d.	Is the applicant the owner or operator (or both) of this facility?  owner operator				
	e.	Should correspondence regarding this permit be directed to the facility or the applicant?				
		facility applicant				
3.	Per	mit Information.				
	a.	Facility's VPDES permit number (if applicable): <u>VA0068586</u>				
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:				
		Permit Number: Type of Permit:				
		N/A $N/A$				
4.	Ind	lian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this				

	Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:						
	Phone: ()						
	City or Town: State: Zip:						
	Street or P.O. Box:						
	Mailing address:						
	Name:						
	If "Yes", provide the following for each contractor (attach additional pages if necessary).						
7.	<b>Contractor Information.</b> Are any operational or maintenance aspects of this facility related to sewage sludge generation treatment, use or disposal the responsibility of a contractor? Yes $\underline{X}$ No						
6.	Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.						
	b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.						
	<ul> <li>a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.</li> </ul>						
5.	<b>Topographic Map.</b> Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:						

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. N/A

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

9.	<b>Certification.</b> Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:				
	X Section A (General Information)				
	Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)				
	Section C (Land Application of Bulk Sewage Sludge)				
	Section D (Surface Disposal)				
	"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."				
	Name and official title: Paul E. Howard, Jr., Director of Environmental Services  Signature Date Signed  Telephone number: (540) 727-3409				
	Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.				

# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.	Amount	Generated	On	Site.

Total dry metric tons per 365-day period generated at your facility: 10 dry metric tons

a.	Facility name: $N/A$							
b.	Contact Person:							
	Title:							
	Phone: ( )							
c.	Mailing address:							
	Street or P.O. Box:							
	City or Town:          State:							
d.	Facility location:							
	(not P.O. Box)							
e.	Total dry metric tons per 365-day period received from this facility: dry metric tons							
f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility including blending activities and treatment to reduce pathogens or vector attraction characteristics:							
	reatment Provided at Your Facility. N/A  Which class of pathogon reduction is achieved for the coverage cludge at your facility?							
a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility?  Class A Class B Neither or unknown							
b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce							
	pathogens in sewage sludge:							
c.	Which vector attraction reduction option is met for the sewage sludge at your facility?							
	Option 1 (Minimum 38 percent reduction in volatile solids)							
	Option 2 (Anaerobic process, with bench-scale demonstration)							
	Option 3 (Aerobic process, with bench-scale demonstration)							
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)							
	Option 5 (Aerobic processes plus raised temperature)							
	Option 6 (Raise pH to 12 and retain at 11.5)							
	Option 7 (75 percent solids with no unstabilized solids)							
	Option 8 (90 percent solids with unstabilized solids)							
	None or unknown							
d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector							
	attraction properties of sewage sludge:							
e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including							
	blending, not identified in a - d above:							

One of Vector Attraction Reduction Options 1-8 (EQ Sludge).

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(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.) a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? Yes No 5. Sale or Give-Away in a Bag or Other Container for Application to the Land. N/A (Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.) Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: \_\_\_\_ dry metric tons Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land. Shipment Off Site for Treatment or Blending. (Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) Receiving facility name: Remington Wastewater Facility b. Facility contact: Stephen M. Shelton Title: Chief Operator Phone: (540) 439-2225 c. Mailing address: Street or P.O. Box: 12523 Lucky Hill Road City or Town: Remington State: VA Zip: 22734 Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: 10 (estimated) dry metric tons List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices: Permit Number: Type of Permit: **VPDES** VA0076805 Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? X Yes No Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? X Neither or unknown Class B Class A Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge: pursuant to Remington STP permit and sludge management plan Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? X Yes No Which vector attraction reduction option is met for the sewage sludge at the receiving facility? Option 1 (Minimum 38 percent reduction in volatile solids)

Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration)

Option 5 (Aerobic processes plus raised temperature)

Option 6 (Raise pH to 12 and retain at 11.5)

Option 4 (Specific oxygen uptake rate for aerobically digested sludge)

FACI	LITY NAME: Culpeper County Industrial Air Park WWTP VPDES PERMIT NUMBER: VA0068586
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
	X None <u>unknown</u>
	Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce
	vector attraction properties of sewage sludge:
h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above?  Yes X No
	If "Yes", describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:
i.	If you answered "Yes" to f, g or h above, attach a copy of any information you provide to the receiving facility to
1.	comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. N/A
j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away fo application to the land? $\underline{\hspace{1cm}}$ Yes $\underline{X}$ No
	If "Yes", provide a copy of all labels or notices that accompany the product being sold or given away.
k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? X Yes No. If "No", provide description and specification on the vehicle used to transpor the sewage sludge to the receiving facility.
	Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week
	and the times of the day sewage sludge will be transported. Route 685 approximately 1 mile to U.S. 12/29 north approximately 3 miles; days of the week Monday through Friday normally, hours can vary.
7. La	and Application of Bulk Sewage Sludge. N/A
	Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Tuestions 4, 5 or 6. Complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:
	dry metric tons
b.	Do you identify all land application sites in Section C of this application? Yes No
	If "No", submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
c.	Are any land application sites located in States other than Virginia? Yes No
	If "Yes", describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).

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#### 8. Surface Disposal. N/A

a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal							
ч.	sites: dry metric tons							
b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?  Yes No							
	If "No", answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.							
c.	Site name or number:							
d.	Contact person:							
	Title:							
	Phone: ()							
	Contact is: Site Owner Site operator							
e.	Mailing address:							
	Street or P.O. Box:							
	City or Town: State: Zip:							
f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal							
	site: dry metric tons							
g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other							
	federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:							
	Permit Number: Type of Permit:							
	cineration. N/A							
(C	omplete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)							
a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge							
	incinerator: dry metric tons							
b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?  Yes No							
	If "No", answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.							
c.	Incinerator name or number:							
d.	Contact person:							
	Title:							
	Phone: ()							
	Contact is: Incinerator Owner Incinerator Operator							
e.	Mailing address:							
	Street or P.O. Box:							
	City or Town: State: Zip:							
f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge							
	incinerator: dry metric tons							
	incinerator: dry metric tons							

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	of sewage sludge at this	incinerator:						
	Permit Number:	Type of Permit:						
0. D	isposal in a Municipal Sol	id Waste Landfill.	N/A					
(C fo	Complete Question 10 if sev Illowing information for ea wage sludge is placed on n	wage sludge from yo ich municipal solid i	our facility is place waste landfill on w	which sewage	sludge from your facil	lity is placed. If		
a.	- 1044			_	• •	• /		
b.								
	Title:							
	Phone: ()							
	Contact is: Land							
c.			-					
	Street or P.O. Box:							
	City or Town:							
d.	Landfill location.							
	Street or Route #:							
	County:							
	City or Town:				Zip:	-		
e.	Total dry metric tons per		ewage sludge plac	ed in this mu	nicipal solid waste land	fill:		
f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of the municipal solid waste landfill:							
	Permit Number:	71						
g.	Does sewage sludge mee 80-10 et seq., concerning Yes No					tion, 9 VAC 20-		
h.	Does the municipal solid Management Regulation	waste landfill comp, 9 VAC 20-80-10 et	ly with all applica seq.? Yes	ble criteria se  No	t forth in the Virginia S	Solid Waste		
i.	Will the vehicle bed or o watertight and covered?	ther container used t	o transport sewage No	e sludge to the	e municipal solid waste	landfill be		
	Show the haul route(s) or	n a location map or t	riefly describe the	e route below	and indicate the days o	f the week		
	and time of the day sewa							



#### SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

1.	Ide	ntification of Land Application Site.
	a.	Site name or number:
	b.	Site location (Complete i and ii)
		i. Street or Route#:
		County:
		City or Town: State: Zip:
		ii. Latitude: Longitude:
		Method of latitude/longitude determination USGS map Filed survey Other
	c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.
2.	Ov	vner Information.
	a.	Are you the owner of this land application site? Yes No
	b.	If "No", provide the following information about the owner:
		Name:
		Street or P.O. Box:
		City or Town: State: Zip:
		Phone: ()
3.	Ap	plier Information:
	a.	Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?  Yes No
	b.	If "No", provide the following information for the person who applies the sewage sludge:
		Name:
		Street or P.O. Box:
		City or Town: State: Zip:
		Phone: ( )
	c.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:
		Permit Number: Type of Permit:
4.	Sit	e Type. Identify the type of land application site from among the following:
		Agricultural land Reclamation site Forest
	***************************************	Public contact site Other (describe
<b>=</b>		ctor Attraction Reduction.
5.		e any vector attraction reduction requirements met when sewage sludge is applied to the land application site?
		Yes No If "Yes", answer a and b.
		Indicate which vector attraction reduction option is met:

	Option 9 (Injection below land surface)						
	Option 10 (Incorporation into soil within						
b.	Describe, on this form or on another sheet of positive vector attraction properties of sewage sludg	aper, any treatment processes used at the land application site to reduc ge:					
	umulative Loadings and Remaining Allotment						
(Co	omplete Question 6 only if the sewage sludge ap Illutant loading rates (CPLRs) - see instructions	oplied to this site since July 20, 1993 is subject to the cumulative s.)					
a.	Have you contacted DEQ or the permitting aut be applied to ascertain whether bulk sewage slu 1993? Yes No	thority in the state where the sewage sludge subject to the CPLRs will udge subject to the CPLRs has been applied to this site since July 20,					
	If "No", sewage sludge subject to the CPLRs m	nay not be applied to this site.					
	If "Yes", provide the following information:						
	Permitting authority:						
	Contact person:						
	Phone: ( )						
b.	Based upon this inquiry, has bulk sewage sludg Yes No If "No", skip the rest of	ge subject to the CPLRs been applied to this site since July 20, 1993? of Question 6. If "Yes", answer questions c - e.					
c.	Site size, in hectares: (one hect	tare = 2.471 acres)					
d.	Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.						
	Facility name:						
	Facility contact:						
	Title:						
	Phone: ( )						
	Mailing address.						
	Street or P.O. Box:						
	City or Town:	State: Zip:					
e.	Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:						
	Cumulative loading	Allotment remaining					
	Arsenic	William Control of the Control of th					
	Cadmium	41/158/159 (Incompanie) and children has a state of the children and c					
	Copper						
	Lead	Will Conference and C					
	Mercury						
	Nickel	MANAGEMENT AND					
	C -1						
	SeleniumZinc	Address of the Control of the Contro					

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

<b>7.</b>	Sludge Characterization. Use the table	e below or a separate attachment, provide at least one analysis for each parameter.
	PCBs (mg/kg)	
	pH (S. U.)	
	Percent Solids (%)	
	Ammonium Nitrogen (mg/kg)	
	Nitrate Nitrogen (mg/kg)	
	Total Kjeldahl Nitrogen (mg/kg)	
	Total Phosphorus (mg/kg)	
	Total Potassium (mg/kg)	

#### 8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
  - 1) Water wells, abandoned or operating
  - 2) Surface waters
  - 3) Springs
  - 4) Public water supply(s)

Alkalinity as CaCO<sub>3</sub>\* (mg/kg)

- 5) Sinkholes
- 6) Underground and/or surface mines
- 7) Mine pool (or other) surface water discharge points
- 8) Mining spoil piles and mine dumps
- 9) Quarry(s)
- 10) Sand and gravel pits
- 11) Gas and oil wells
- 12) Diversion ditch(s)
- 13) Agricultural drainage ditch(s)
- 14) Occupied dwellings, including industrial and commercial establishments
- 15) Landfills or dumps
- 16) Other unlined impoundments
- 17) Septic tanks and drainfields
- 18) Injection wells
- 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
  - 1) Maximum and minimum percent slopes
  - 2) Depressions on the site that may collect water
  - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
  - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings

<sup>\*</sup> Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO<sub>3</sub>.

(CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.

10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

<ol><li>Ground Wa</li></ol>	ter Monitoring.
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Are any ground water monitoring data available for this land application site? \_\_\_\_\_ Yes \_\_\_\_\_ No If "Yes", submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U.S. Fish and Wildlife Service Virginia Field Office P.O. Box 480 White Marsh, VA 23183 TEL: (804) 693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

#### Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1) Soil symbol
  - 2) Soil series, textural phase and slope range
  - 3) Depth to seasonal high water table
  - 4) Depth to bedrock
  - 5) Estimated soil productivity group (for the proposed crop rotation)
- f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)	
Soil pH (std. units)	
Cation Exchange Capacity (meq/100g)	

Total Nitrogen (ppm)	
Organic Nitrogen (ppm)	
Ammonia Nitrogen (ppm)	
Nitrate Nitrogen (ppm)	
Available Phosphorus (ppm)	
Exchangeable Potassium (mg/100g)	
Exchangeable Sodium (mg/100g)	
Exchangeable Calcium (mg/100g)	
Exchangeable Magnesium (mg/100g)	
Arsenic (ppm)	
Cadmium (ppm)	
Copper (ppm)	
Lead (ppm)	
Mercury (ppm)	***************************************
Molybdenum (ppm)	
Nickel (ppm)	
Selenium (ppm)	
Zinc (ppm)	
Manganese (ppm)	
Particle Size Analysis or USDA Textural Estimate (%)	

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

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# SEWAGE SLUDGE APPLICATION AGREEMENT

Th	is sewage sludge application agreement is made on this d	late	between	
	, referred to here as	"landowner", and	, referred	
	here as the "Permittee".			
La	ndowner is the owner of agricultural land shown on the n			
	("landowner's land"	"). Permittee agrees to apply and lan	downer agrees to comply with	
	tain permit requirements following application of sewage			
	nanner authorized by VPDES permit number			
coi pu	ndowner acknowledges that the appropriate application on additioning to the property. Moreover, landowner acknow blic health, the following site restrictions must be adhereculation:	ledges having been expressly advise	d that, in order to protect	
1.	Food crops with harvested parts that touch the sewage s be harvested for 14 months after application of sewage	sludge/soil mixture and are totally ab sludge;	ove the land surface shall not	
2.	Food crops with harvested parts below the surface of th sewage sludge when the sewage sludge remains on the the soil;	e land shall not be harvested for 20 r land surface for four months or long	months after application of er prior to incorporation into	
3.	<ol> <li>Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation in the soil;</li> </ol>			
4.	4. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge;			
5.	Animals shall not be grazed on the land for 30 days after	er application of sewage sludge;		
6.				
7.				
8.				
9.	Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).			
spe	rmittee agrees to notify landowner or landowner's designe cifically prior to any particular application to landowner's iten notice to the address specified below.	ee of the proposed schedule for sewages land. This agreement may be termined	ge sludge application and inated by either party upon	
	Landowner:	Permittee:		
	Signature	Signature	Advanced to the state of the st	
	Mailing Address	Mailing Address		

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#### SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1.			ation on Active Sewa	_			
	a.						
	b.	_	it location				
		i.					
						~.	
			City or Town:		State:	Zip:	
		ii.		Longitud	e:		
			USGS map	ongitude determination Filed survey			
	c.		pographic map. Providous the site location.	de a topographic map (or other	r appropriate map if a	topographic map is unavailable) th	nat
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:					
			dry metric	e tons.			
	e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:					
	dry metric tons.  f. Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of 1 x 10 <sup>-7</sup> cm/sec						
	1.	DC	Yes No	If "Yes", describe the liner or	attach a description.	inductivity of 1 % 10 one see.	
		-					
	g.		_	ludge unit have a leachate coll			
If "Yes", describe the leachate collection system or attach a description. Also, describe the method disposal and provide the numbers of any federal, state or local permits for leachate disposal:						achate disposal:	
	h.	Is	you answered "No" to the boundary of the act	either f or g, answer the follow	ving: an 150 meters from th	ne property line of the surface dispos:	
	i.			ctive sewage sludge unit, in dr			
			C 1 •			(MM/DD/YYYY)	
				tion a copy of any closure plan			
2.	Ser		e Sludge from Other				
		~	_		n any facilities other th	nan yours? Yes No	)
		f "Yes", provide the following information for each such facility, attach additional sheets as necessary.					
	a.		_				
	b.						
	0.						
	c.		ailing address:		· · · · · · · · · · · · · · · · · · ·		
	٠.		e				
		٠.		ttachment, the facility's VPDE		1 0 1 0 0 1	ono1

# FACILITY NAME: Culpeper County Industrial Air Park WWTP **VPDES PERMIT NUMBER: VA0068586** Permit Number: Type of Permit: Which class of pathogen reduction is achieved before sewage sludge leaves the other facility? Class B Neither or unknown Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge: Which vector attraction reduction option is achieved before sewage sludge leaves the other facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge: Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above: Vector Attraction Reduction. Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit? Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Option 11 (Covering active sewage sludge unit daily) Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:

# 4. Ground Water Monitoring.

a. Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit? \_\_\_\_\_ Yes \_\_\_\_ No

If "Yes", provide a copy of available ground water monitoring data. Also provide a written description of the well

If "Yes", provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

b. Has a ground water monitoring program been prepared for this active sewage sludge unit?

Yes \_\_\_\_\_ No \_ If "Yes", submit a copy of the ground water monitoring program with this application.

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	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sew sludge unit has not been contaminated? Yes No If "Yes", submit a copy of the certification with this application.	/age			
5.	Site-Specific Limits.				
	Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?  Yes No If "Yes", submit information to support the request for site-specific pollutant limits with application.	this			